1. First, find the equation of the line containing the two points below. Then, write the equation in the form $y = mx+b$ and choose the intervals that contain m and b.

$$(-4, 2) \text{ and } (-9, -2)$$

A. $m \in [0.02, 1.65]$ $b \in [5.8, 6.08]$

B. $m \in [-1.11, 0.12]$ $b \in [-9.6, -8.37]$

C. $m \in [0.02, 1.65]$ $b \in [6.76, 7.15]$

D. $m \in [0.02, 1.65]$ $b \in [5.11, 5.34]$

E. $m \in [0.02, 1.65]$ $b \in [-5.6, -4.65]$

---

2. Solve the linear equation below. Then, choose the interval that contains the solution.

$$\frac{5x+9}{6} - \frac{-7x-7}{3} = \frac{7x+7}{4}$$

A. $x \in [1.67, 1.93]$

B. $x \in [-1.71, -0.62]$

C. $x \in [-0.54, -0.26]$

D. $x \in [-6.82, -5.13]$

E. There are no real solutions.

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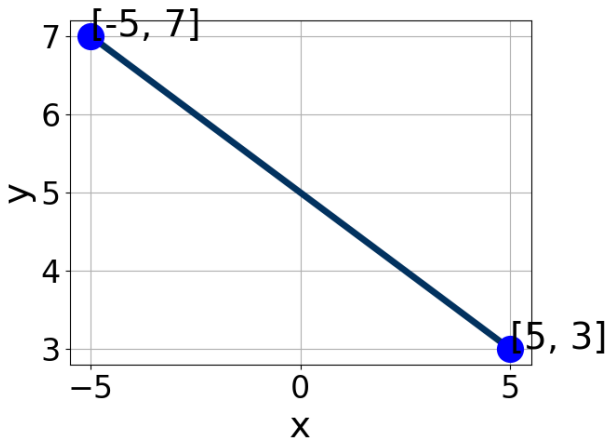
3. Write the equation of the line in the graph below in Standard Form $Ax + By = C$. Then, choose the intervals that contain $A, B,$ and C.



A. $A \in [-0.6, 1.4]$, $B \in [-0.15, 2.2]$, and $C \in [4, 9]$

B. $A \in [2, 9]$, $B \in [4.62, 5.45]$, and $C \in [23, 27]$

C. $A \in [-0.6, 1.4]$, $B \in [-1.03, 0.21]$, and $C \in [-5, -4]$

D. $A \in [2, 9]$, $B \in [-7.61, -3.85]$, and $C \in [-30, -21]$

E. $A \in [-2, -1]$, $B \in [-7.61, -3.85]$, and $C \in [-30, -21]$

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4. Solve the equation below. Then, choose the interval that contains the solution.

$$-13(-4x - 5) = -18(-19x - 12)$$

A. $x \in [0.85, 1.05]$

B. $x \in [-0.63, -0.31]$

C. $x \in [-1.19, -0.82]$

D. $x \in [-0.8, -0.66]$

E. There are no real solutions.

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5. Find the equation of the line described below. Write the linear equation in the form $y = mx + b$ and choose the intervals that contain m and b.

Parallel to $3x - 8y = 15$ and passing through the point $(-3, -9)$.

A. $m \in [-0.75, 0.37]$ $b \in [-10.3, -9.3]$

B. $m \in [0.31, 1.13]$ $b \in [6.6, 10]$

C. $m \in [0.31, 1.13]$ $b \in [-8.7, -7.1]$

D. $m \in [0.31, 1.13]$ $b \in [-6.7, -5.4]$

E. $m \in [1.83, 2.85]$ $b \in [-8.7, -7.1]$

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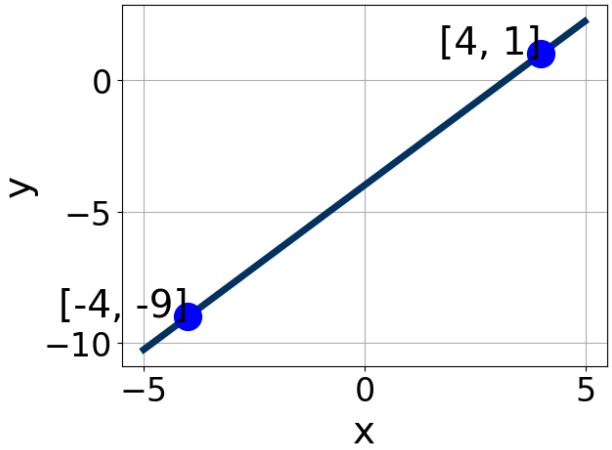
6. Write the equation of the line in the graph below in Standard Form $Ax + By = C$. Then, choose the intervals that contain $A, B,$ and C.



A. $A \in [2, 9]$, $B \in [2.7, 6.6]$, and $C \in [-17, -15]$

B. $A \in [-8, -4]$, $B \in [2.7, 6.6]$, and $C \in [-17, -15]$

C. $A \in [-4.25, 3.75]$, $B \in [-2.8, 0.8]$, and $C \in [1, 6]$

D. $A \in [-4.25, 3.75]$, $B \in [0.1, 2.1]$, and $C \in [-11, -3]$

E. $A \in [2, 9]$, $B \in [-4.2, -3.2]$, and $C \in [14, 20]$

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7. Find the equation of the line described below. Write the linear equation in the form $y = mx + b$ and choose the intervals that contain m and b.

Parallel to $4x + 9y = 13$ and passing through the point $(5, -4)$.

A. $m \in [-0.18, 0.74]$ $b \in [-6.8, -5.7]$

B. $m \in [-0.5, 0.02]$ $b \in [-1, 4.2]$

C. $m \in [-0.5, 0.02]$ $b \in [-12.1, -8.4]$

D. $m \in [-3.15, -1.79]$ $b \in [-2.1, -0.3]$

E. $m \in [-0.5, 0.02]$ $b \in [-2.1, -0.3]$

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8. Solve the equation below. Then, choose the interval that contains the solution.

$$-2(-18x - 9) = -19(-16x - 8)$$

A. $x \in [-0.57, -0.33]$

B. $x \in [0.51, 0.65]$

C. $x \in [-0.97, -0.59]$

D. $x \in [-0.57, -0.33]$

E. There are no real solutions.

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9. First, find the equation of the line containing the two points below. Then, write the equation in the form $y = mx+b$ and choose the intervals that contain m and b.

$$(-5, -9) \text{ and } (9, -2)$$

A. $m \in [0.2, 3]$ $b \in [-7, -4.5]$

B. $m \in [-3.7, 0.4]$ $b \in [-1, 3]$

C. $m \in [0.2, 3]$ $b \in [6.1, 6.7]$

D. $m \in [0.2, 3]$ $b \in [-12.8, -9.6]$

E. $m \in [0.2, 3]$ $b \in [-4.6, -3.9]$

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10. Solve the linear equation below. Then, choose the interval that contains the solution.

$$\frac{-5x - 4}{2} - \frac{3x - 8}{8} = \frac{-9x + 8}{4}$$

A. $x \in [-6.3, -4.5]$

B. $x \in [0.6, 3.2]$

C. $x \in [-9.5, -7.8]$

D. $x \in [-7.1, -6.1]$

E. There are no real solutions.
